

A1
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f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling comprising [The method of claim 1 wherein the step of controlling comprises] powering down circuitry when it is not needed.

Sub 27

7) A method of providing operational power to a battery powered utilization device, said method comprising:

- A2
- a) monitoring operational battery pack characteristics;
 - b) storing said characteristics in an electronic memory device contained within said battery pack as battery pack data;
 - c) monitoring present battery pack conditions;
 - d) retrieving said battery pack data;
 - e) communicating said present battery pack conditions and said battery pack data to said battery powered utilization device; and
 - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling comprising [The method of claim 1 wherein the step of controlling comprises] entering a low power mode.

Sub 33

15) A method of providing operational power to a battery powered utilization device, said method comprising:

- A3
- a) monitoring operational battery pack characteristics;
 - b) storing said characteristics in an electronic memory device contained within said battery pack as battery pack data;
 - c) monitoring present battery pack conditions;
 - d) retrieving said battery pack data;
 - e) communicating said present battery pack conditions and said battery pack data to said battery powered utilization device; and
 - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling comprising [The method of claim 1 wherein the step of controlling comprises] deselecting at least one battery of the battery pack.

Sub 47 17) A method of providing operational power to a portable utilization device, said method comprising:

- A4
- a) storing in an electronic memory device contained within a battery pack, battery pack data related to battery pack characteristics;
 - b) coupling the battery pack with the portable utilization device;
 - c) monitoring present battery pack conditions;
 - d) retrieving the battery pack data;
 - e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and
 - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling comprising [The method of claim 16 wherein the step of controlling comprises] powering down circuitry when it is not needed.

Sub 357 22) A method of providing operational power to a portable utilization device, said method comprising:

- A5
- a) storing in an electronic memory device contained within a battery pack, battery pack data related to battery pack characteristics;
 - b) coupling the battery pack with the portable utilization device;
 - c) monitoring present battery pack conditions;
 - d) retrieving the battery pack data;
 - e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and
 - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling comprising [The method of claim 16 wherein the step of controlling comprises] entering a low power mode.

Sub 367 30) A method of providing operational power to a portable utilization device, said method comprising:

- A6
- a) storing in an electronic memory device contained within a battery pack, battery pack data related to battery pack characteristics;
 - b) coupling the battery pack with the portable utilization device;

- A6
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- c) monitoring present battery pack conditions;
 - d) retrieving the battery pack data;
 - e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and
 - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling comprising [The method of claim 16 wherein the step of controlling comprises] deselecting at least one battery of the battery pack.

Sub B6
cont

32) A method of providing operational power to a portable utilization device, said method comprising;

- A7
- a) coupling a battery pack with an electronic memory system and with processing circuitry of the portable utilization device;
 - b) incorporating in the electronic memory system, battery pack data related to battery pack characteristics of the battery pack;
 - c) monitoring present battery pack conditions;
 - d) retrieving the battery pack data;
 - e) communicating information based on the present battery pack conditions and based on the battery pack data to processing circuitry of the portable utilization device; and
 - f) controlling by said portable utilization device, operational discharge of the battery pack, said controlling comprising [The method of claim 31 wherein the step of controlling comprises] powering down circuitry when it is not needed.

Sub B7

37) A method of providing operational power to a portable utilization device, said method comprising;

- A9
- a) coupling a battery pack with an electronic memory system and with processing circuitry of the portable utilization device;
 - b) incorporating in the electronic memory system, battery pack data related to battery pack characteristics of the battery pack;
 - c) monitoring present battery pack conditions;
 - d) retrieving the battery pack data;